Amendment and Response -- After Final NOR-099 U.S.S.N. 10/040,975 Page 2

Amendments to the Claims:

Please amend the claims to read as follows:

1	1.	(currently amended) A method for routing packets in a router having a
2		plurality of <u>router</u> interfaces through which the packets are received from
3		a plurality of address domains-and-having a separate routing table
4		dedicated to each address domain, the method comprising:
5		dedicating a separate routing table to each address domain of the
6		plurality of address domains;
7		associating each router interface with one of the routing tables;
8		and
9		executing a single IP stack to receive $\underline{\mathbf{a}}$ packet[s] from any of the
10		router interfaces and to identify an appropriate the associated routing
11		table for <u>handling the</u> received packet[s].
1	2.	(canceled)
1	3.	(previously presented) The method of claim 1, wherein a mapping array
2		associates interfaces connecting to the same address domain with the
3		same routing table.
1	4.	(previously presented) The method of claim 1, wherein executing a single
2		IP stack forwards a received packet according to the identified routing

Amendment and Response -- After Final NOR-099

U.S.S.N. 10/040,975

Page 3

2

3

5

6 7

1

1

2

2

3

table when the received packet is a data packet and updates the

4 identified routing table when the received packet is a control packet.

1 5. (canceled)

1 6. (original) The method of claim 1 wherein each of the plurality of address

domains represents a virtual private network.

1 7. (currently amended) A router comprising:

2 a plurality of router interfaces through which packets from a

plurality of address domains are received;

a separate routing table associated with each address domain; and

a domain manager executing a single IP stack to receive a packet[s]

from any of the router interfaces and to identify an appropriate routing

table for handling the received packet[s].

(canceled)

9. (previously presented) The router of claim 7, wherein the domain

manager comprises a mapping array that associates each interface to a

3 routing table.

1 10. (previously presented) The router of claim 7, wherein the domain

manager executing the single stack forwards a received packet according

to the identified routing table when the received packet is a data packet

Amendment and Response -- After Final NOR-099 U.S.S.N. 10/040,975

Page 4

4 and updates the identified routing table when the received packet is a

- 5 control packet.
- 1 11. (canceled)
- 1 12. (original) The router of claim 7 wherein each of the plurality of address
- 2 domains represents a virtual private network.
- 1 13.-20. (canceled)